FIG. 1

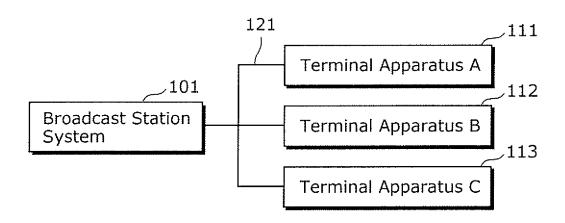


FIG. 2

Frequency Band	Application	Modulation Type	
5∼130MHz	Out Of Band (OOB) 5~130MHz Data exchange between head-end and terminal		
In-band 130~864MHz Normal television broadcast that includes video/audio		QAM	

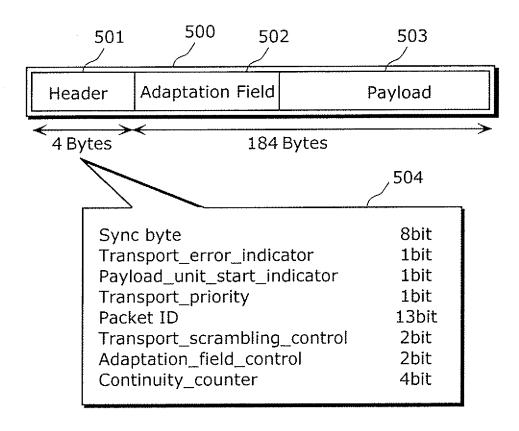
FIG. 3

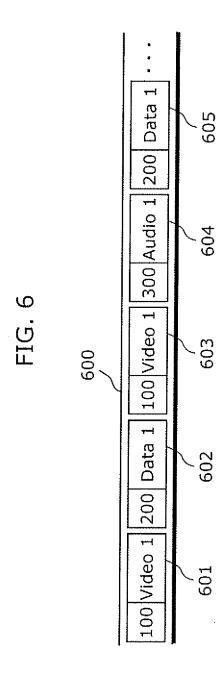
Frequency Band	Application
70~74MHz	Sending data from head-end 101 to terminal apparatuses
10.0~10.1MHz	Sending data from terminal apparatus A111 to head-end 101
10.1~10.2MHz	Sending data from terminal apparatus B112 to head-end 101
10.2~10.3MHz	Sending data from terminal apparatus C113 to head-end 101

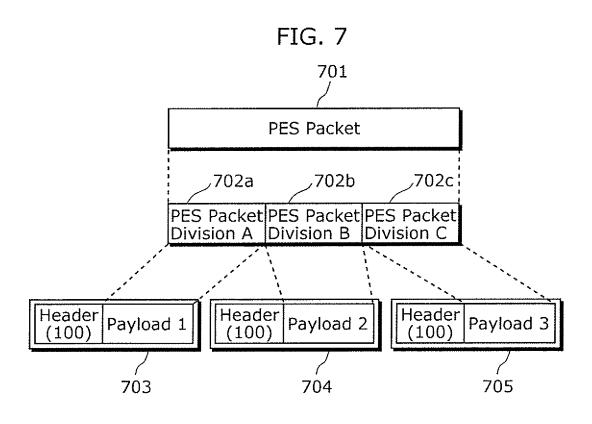
FIG. 4

Frequency Band	Application
150~156MHz	TV channel 1
156~162MHz	TV channel 2
1 1 1 1	
310~311MHz	Radio Channel 1
1 1 1 1	

FIG. 5







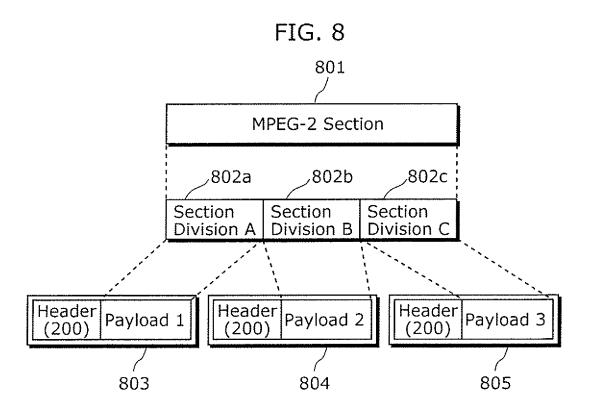


FIG. 9

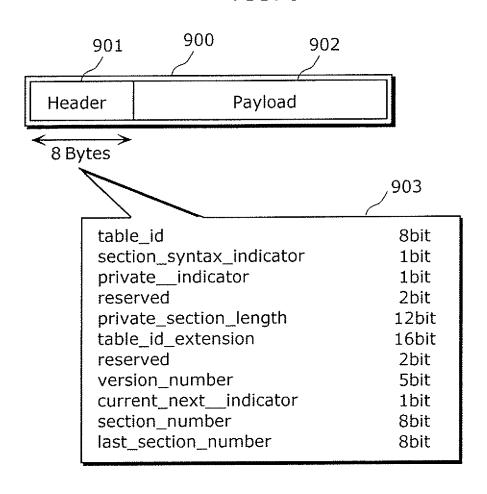


FIG. 10

	1001	1002	1003
	PID	table_id	Details of data sent by MPEG-2 section
1004~	16	64	Demodulation information of TS
1005 ~	18	66	Information regarding service
1006~	20	95	Information regarding TV show

FIG. 11

	Program N	lumber	101	1100
	Audio	5011		1111
	Video	5012		1112
ES	Data	5013	AIT	1113
	Data	5014	DSMCC[1]	1114
<u>'</u>	/	7)	
	1101	1102	1103	

FIG. 12

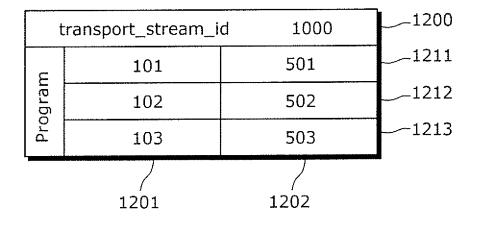


FIG. 13

		-
index	Frequency	
1	600 MHz	1311
2	612.5 MHz	1312
3	625 MHz	1313
1301	1302	

FIG. 14

index	Modulation Type	Bitrate	
1	64 QAM	27 Mbps	<u> </u>
2	64 QAM	27 Mbps	1412
3	256 QAM	38 Mbps	1413
1401	1402	1403	

FIG. 15

Source ID	Service Name	
100	Channel 1	1511
200	Channel 2	1512
300	Movie Channel	1513
400	Sports Channel	1514
500	News Channel	1515
	7	
1501	1502	

FIG. 16

	Source ID	Channel Number	CDS index	MMS index	Program Number	
	100	10	1	1	101	1611
	200	20	2	2	201	<u> </u>
	300	30	2	2	301	1613
	400	40	3	3	401	1614
	500	50	3	3	501	1615
1	601	1602 1	603 1	.604	1605	

FIG. 17

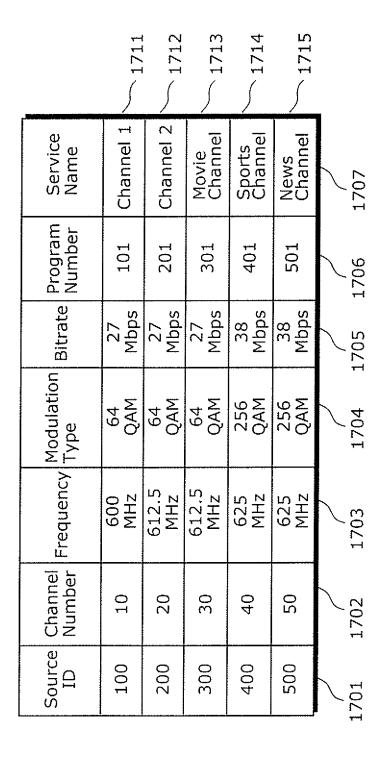


FIG. 18

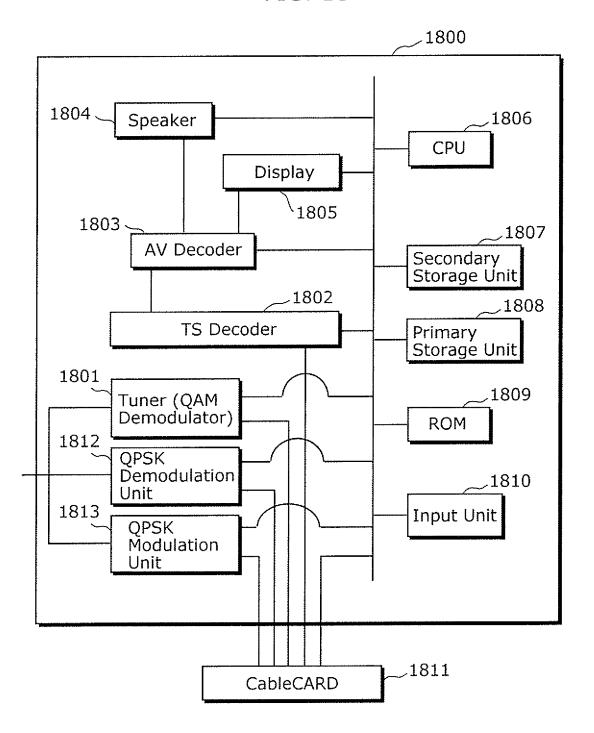
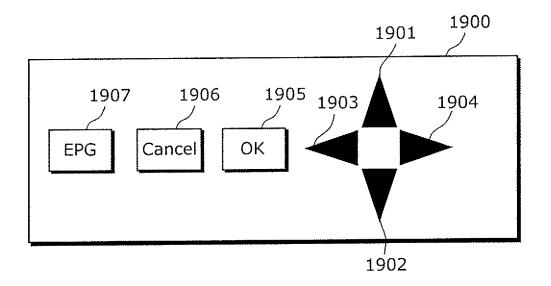


FIG. 19



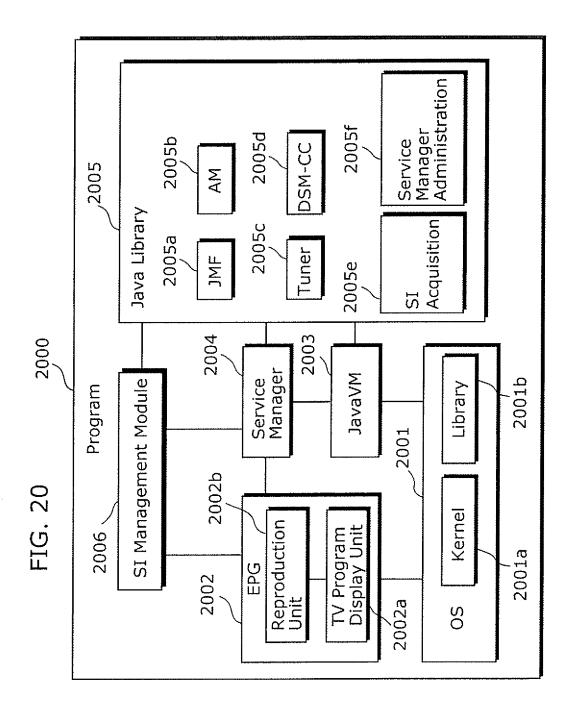


FIG. 21A 1605 2103 2102 2101 2130 Channel 2 Channel 1 Time 9:00-10:00 Movie BBB News 9 10:00-11:00 Movie AAA 11:00-12:00 News 11

FIG. 21B 1605 2130 2102 2103 2101 Channel 1 Channel 2 Time 9:00-10:00 Movie BBB News 9 10:00-11:00 Movie AAA 11:00-12:00 News 11

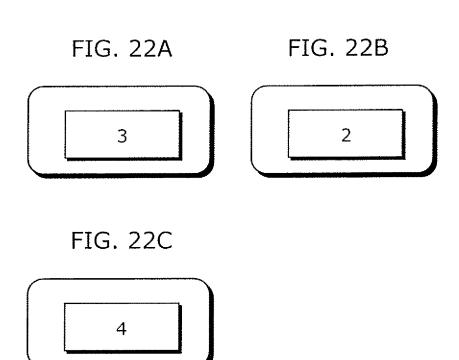


FIG. 23

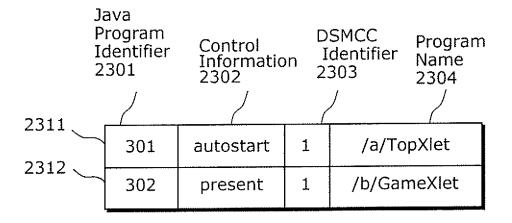


FIG. 24

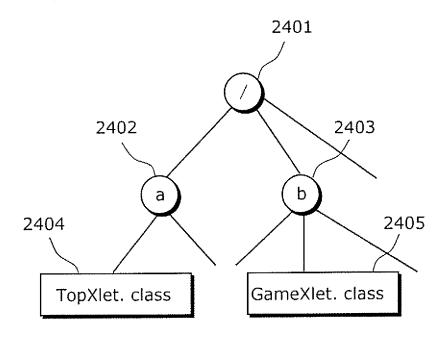
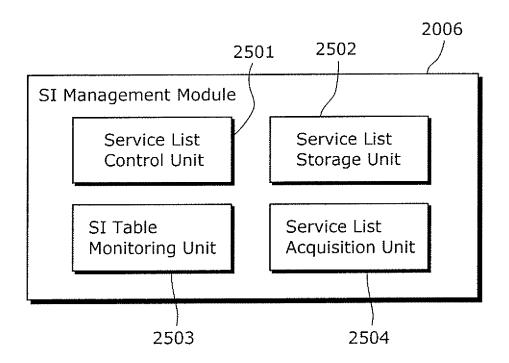


FIG. 25



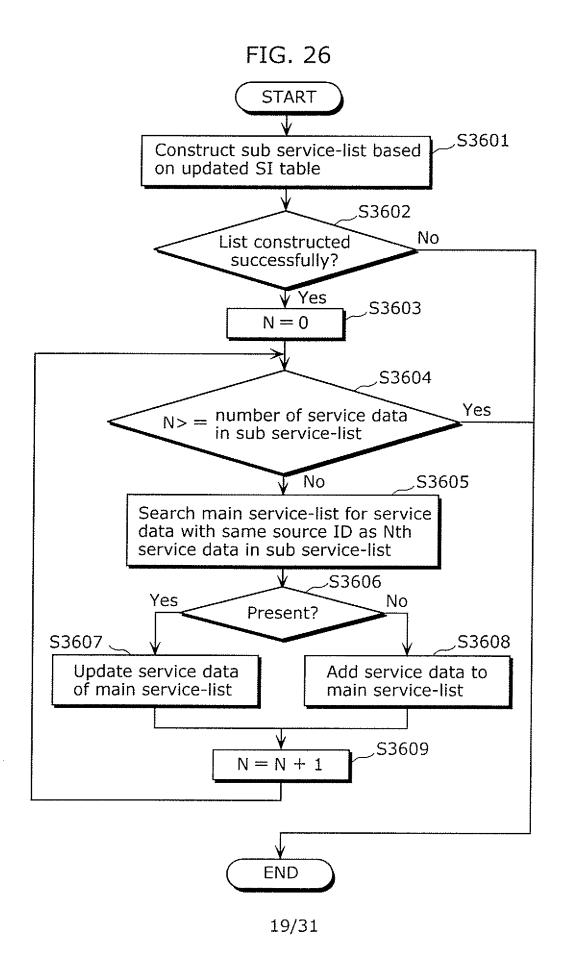


FIG. 27

	1711	1712	1713	1714	2615	
Service Name	Channel 1	Channel 2	Movie Channel	Sports Channel	Drama Channel	1707
Program Number	101	201	301	401	601	1706
Bitrate	27 Mbps	27 Mbps	27 Mbps	38 Mbps	38 Mbps	1705
Modulation Type	64 QAM	64 QAM	64 QAM	256 QAM	256 QAM	1704
Frequency	600 MHz	612.5 MHz	612.5 MHz	625 MHz	650 MHz	1703
Channel Number	10	20	30	40	9	1702
Source ID	100	200	300	400	009	1701

FIG. 28

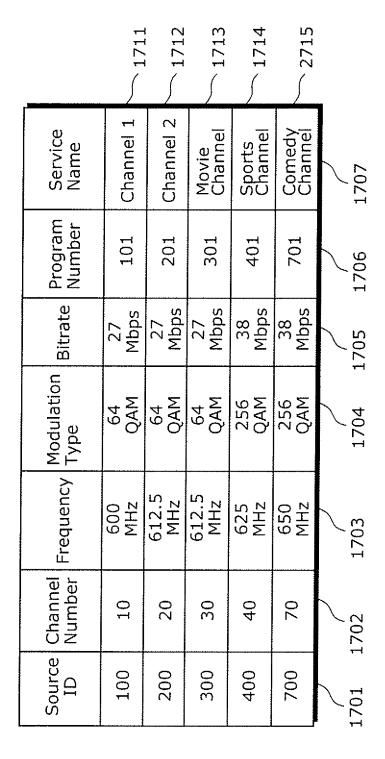


FIG. 29

	1711	1712	1713	1714	1715	2615	2715	
Service Name	Channel 1	Channel 2	Movie Channel	Sports Channel	News Channel	Drama	Comedy	1707
Program Number	101	201	301	401	501	601	701	1706
Bitrate	27 Mbps	27 Mbps	27 Mbps	38 Mbps	38 Mbps	38 Mbps	38 Mbps	1705
Modulation Type	64 QAM	64 QAM	64 QAM	256 QAM	256 QAM	256 QAM	256 QAM	1704
Frequency	600 MHz	612.5 MHz	612.5 MHz	625 MHz	625 MHz	650 MHz	650 MHz	1703
Source Channel ID Number	10	20	30	40	50	9	70	1702
Source ID	100	200	300	400	200	600	700	1701

FIG. 30

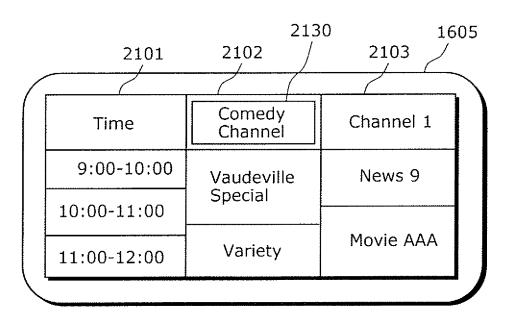


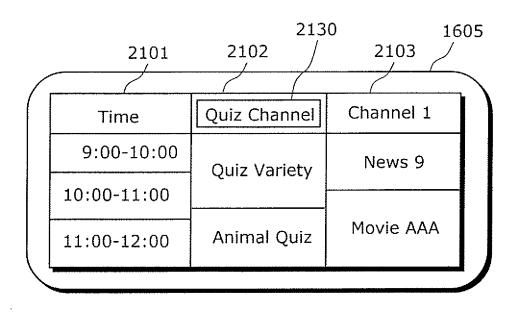
FIG. 31

	1711	1712	71713	1714	3015	
Service Name	Channel 1	Channel 2	Movie Channel	Sports Channel	Quiz Channel	1707
Program Number	101	201	301	401	801	1706
Bitrate	27 Mbps	27 Mbps	27 Mbps	38 Mbps	38 Mbps	1705
Modulation Type	64 QAM	64 QAM	64 QAM	256 QAM	256 QAM	1704
Frequency	600 MHz	612.5 MHz	612.5 MHz	625 MHz	650 MHz	1703
Channel Number	10	20	30	40	80	1702
Source ID	100	200	300	400	800	1701

FIG. 32

	1711	1712	1713	1714	1715	2615	2715	3015	
Service Name	Channel 1	Channel 2	Movíe Channel	Sports Channel	News Channel	Drama Channel	Comedy	Quiz Channel	1707
Program Number	101	201	301	401	501	601	701	801	1706
Bitrate	27 Mbps	27 Mbps	27 Mbps	38 Mbps	38 Mbps	38 Mbps	38 Mbps	38 Mbps	1705
Modulation Type	64 QAM	64 QAM	64 QAM	256 QAM	256 QAM	256 QAM	256 QAM	256 QAM	1704
Frequency	600 MHz	612.5 MHz	612.5 MHz	625 MHz	625 MHz	650 MHz	650 MHz	2HW WHz	1703
Channel Number	10	20	30	40	50	9	70	80	1702
Source ID	100	200	300	400	200	009	700	800	1701

FIG. 33



FIG, 34

	1711	1712	71713	1714	3315	
Service Name	Channel 1	Channel 2	Movie Channel	Sports Channel	Chess Channel	1707
Program Number	101	201	301	401	901	1706
Bitrate	27 Mbps	27 Mbps	27 Mbps	38 Mbps	38 Mbps	1705
Modulation Type	64 QAM	64 QAM	64 QAM	256 QAM	256 QAM	1704
Frequency	600 MHz	612.5 MHz	612.5 MHz	625 MHz	650 MHz	1703
Channel Number	10	20	30	40	90	1702
Source ID	100	200	300	400	006	1701

	1711	1712	1713	1714	1715	72615	2715	3015	3315	
Service Name	Channel 1	Channel 2	Movie Channel	Sports Channel	News Channel	Drama Channel	Comedy Channel	Quiz Channel	Chess	1707
Program Number	101	201	301	401	501	601	701	801	901	1706
Bitrate	27 Mbps	27 Mbps	27 Mbps	38 Mbps	38 Mbps	38 Mbps	38 Mbps	38 Mbps	38 Mbps	1705
Modulation Type	64 QAM	64 QAM	64 QAM	256 QAM	256 QAM	256 QAM	256 QAM	256 QAM	256 QAM	1704
Frequency	600 MHz	612.5 MHz	612.5 MHz	625 MHz	625 MHz	650 MHz	650 MHz	650 MHz	650 MHz	1703
Channel Number	10	20	30	40	20	09	02	08	06	1702
 Source ID	100	200	300	400	200	600	700	800	006	1701

FIG. 36

2101	2130	2103
Time	Chess Channel	Channel 1
9:00-10:00	Chess Championship	News 9
10:00-11:00	Live	
11:00-12:00	Chess Quiz	Movie AAA

FIG. 37

	3711a	3711b	1712	1713	1714	1715	_	
Service Name	Channel 1	Channel 2	Channel 2	Movie Channel	Sports Channel	News Channel		1707
Program Number	101	101	201	301	401	501		1706
Bitrate	38 Mbps	27 Mbps	27 Mbps	27 Mbps	38 Mbps	38 Mbps		1705
Modulation Type	256 QAM	64 QAM	64 QAM	64 QAM	256 QAM	256 QAM		1704
Frequency	594 MHz	600 MHz	612.5 MHz	612.5 MHz	625 MHz	625 MHz		1703
Source Channel ID Number	10	10	20	30	40	50		1702
Source ID	00	001	200	300	400	500		1701

FIG. 38

